ABSTRACT OF THE DISCLOSURE

A laser beam emitted by a light source is incident on one
of reflecting surfaces of a polygon mirror. The laser beam
reflected by the reflecting surface is dynamically deflected
in a main scanning direction due to the revolution of the polygon
mirror and enters a scanning lens. The first surface of the
scanning lens is provided with anti-reflection coating only when
the following condition (1) is satisfied:

$$H/2 > |2\beta D(D - Rz_1)/Rz_1| \quad \cdots \cdot (1)$$

where "H" denotes the width of each reflecting surface of the
polygon mirror in a auxiliary scanning direction, "β" denotes
the incident angle [radian] of the laser beam on the reflecting
surface of the polygon mirror in the auxiliary scanning direction,
"D" denotes the distance between the reflecting surface and the
first surface of the scanning lens, and "Rz_1" denotes the
curvature radius of the first surface in an auxiliary scanning
cross section.

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